



PANELMASTER HMI SOLUTIONS

Autech Control Group Pty Ltd is a product distributor specializing in electrical control and automation product solutions based in Melbourne, Australia.

Autech Control Group Pty Ltd is the authorized Australian distributor for the PanelMaster HMI products by Cermate Technologies Inc.



K/T/X/GX - Series

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Cermate
A professional HMI solution provider

X-SERIES

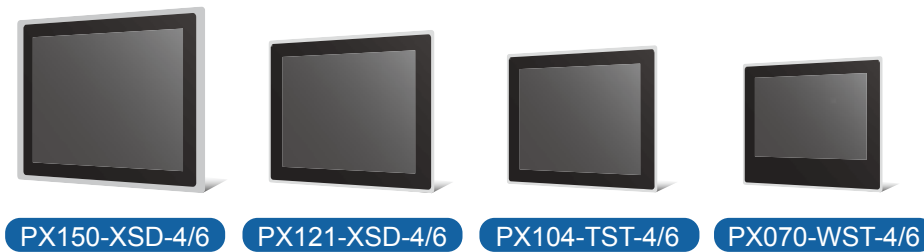
Products Selection Guide

Advanced HMI Panels

(For General Product Group)

The X-series supports comprehensive LCD sizes ranging from 7" to 15" and are equipped with an ARM11 based CPU, 1G flash memory and 1MB battery backup memory. It's expansive communication interfaces; RS232/422/485, Ethernet, and USB port, with over 300 communication drivers allowing the X-series to connect easily with all types of equipment, such as motion/thermal controllers, inverters or sensors to name a few.

- 7"~15" TFT LCD screen size
- Wide temperature & high functionality
- BacNet, Ethernet IP, Video In



Size	15" (4:3)	12.1" (4:3)	10.4" (4:3)	7" (16:9)
Resolution	1024 x 768	1024 x 768	800 x 600	800 x 480
Working Memory	256 MB	256 MB	256 MB	256 MB
Built-in Storage Memory	1 GB	1 GB	1 GB	1 GB
Battery Backed RAM	1 MB	1 MB	1 MB	1 MB
COM1	RS232/422/485	RS232/422/485	RS232/422/485	RS232/422/485
COM2	A/B/C*	A/B/C*	A/B/C*	A/B/C*
COM3	RS232 or RS485	RS232 or RS485	RS232 or RS485	RS232 or RS485
USB	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host
Audio	Optional	Optional	Optional	Optional
Video	Optional	Optional	Optional	Optional
Real-Time Clock	Yes	Yes	Yes	Yes
Micro SD Slot	Yes	Yes	Yes	Yes

* A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS



K-SERIES

Products Selection Guide

Economy HMI Panels

(For General Product Group)

The K-series supports comprehensive LCD sizes ranging from 4.3" to 10.1" and are equipped with an ARM9 based CPU, 8M flash memory and 128KB battery backup memory. Its expansive communication interfaces; RS232/422/485, Ethernet, and USB port, with over 300 communication drivers allowing the K-series to connect easily with all types of equipments, such as motion/thermal controllers, inverters or sensors to name a few.

- 4.3"~ 10.1" wide screen TFT LCD size
- Suitable for simple & compact application
- Slim, cost effective



Size	10.1" (16:9)	7" (16:9)	4.3" (16:9)
Resolution	1024 x 600	800 x 480	480 x 272
NOR Flash Memory	8 MB	8 MB	8 MB
NAND Flash Memory	128 MB	128 MB	-
Battery Backup Memory	128 KB*	128 KB*	128 KB*
USB	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host
Function Key	Yes	Yes	-

* 1MB Battery Backed Memory Optional



T-SERIES

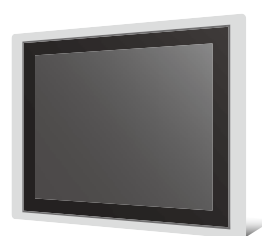
Products Selection Guide

Enhanced HMI Panels

(For General Product Group)

The T-series supports comprehensive LCD sizes ranging from 4.3" to 15.0" and are equipped with an ARM9 based CPU, 8M flash memory and 128KB battery backup memory. Its expansive communication interfaces; RS232/422/485, Ethernet, and USB port, with over 300 communication drivers allowing the T-series to connect easily with all types of equipments, such as motion/thermal controllers, inverters or sensors to name a few.

- 4.3"~15" TFT LCD screen size
- Meets General Machinery Application
- RTC; Flash memory; Historical Data Record; Alarm Data Recode



PT150-XSD



PT104-TST



PT100-WST

Size	15" (4:3)	10.4" (4:3)	10.1" (16:9)
Resolution	1024 x 768	800 x 600	1024 x 600
NOR Flash Memory	8 MB	8 MB	8 MB
NAND Flash Memory	128 MB*	128 MB*	128 MB*
Battery Backup Memory	128 KB**	128 KB**	128 KB**
COM1	RS232/422/485	RS232/422/485	RS232/422/485
COM2	A/B/C***	A/B/C***	A/B/C***
COM3	RS232 or RS485	RS232 or RS485	RS232 or RS485
USB	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host
Real-Time Clock	Yes	Yes	Yes
Front Function Key	-	-	6 (Optional)
Front USB	-	Yes (Optional)	Yes (Optional)
Micro SD	Yes	Yes	Yes

* 128MB NAND Flash only for sub-number 2 and 4

** 1 MB optional

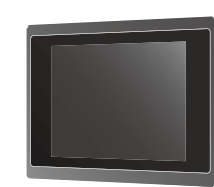
*** A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS



The T-series is equipped with a high resolution TFT LCD contains 65536 colors and LED back light, which gives the display brighter look, and is more clear for highly precise operations. To confront the severe environment setting of some factories, the T-series complies with IP66 and allows for an operating temperature -10~60°C.

Moreover, Cermate also provides some options for customers to shape their own HMI tailored to their needs. For example, an aluminum front case is suited for those who prefer a more fashionable design or to operate the HMI under more harsh environment; NAND flash and micro SD provide extending the capacity of HMI; different COM port options provide additional flexibility for customers.

All those features bundle with our easy-to-use programming software, PM Designer, provides you perfect automation solutions.



PT080-TST



PT070-WST



PT043-WST



PT043-WSK

Size	8" (4:3)	7" (16:9)	4.3" (16:9)	4.3" (16:9)
Resolution	800 x 600	800 x 480	480 x 272	480 x 272
NOR Flash Memory	8 MB	8 MB	8 MB	8 MB
NAND Flash Memory	128 MB*	128 MB*	128 MB*	-
Battery Backup Memory	128 KB**	128 KB**	128 KB**	128 KB**
COM1	RS232/422/485	RS232/422/485	RS232/422/485	RS232/422/485
COM2	A/B/C***	A/B/C***	A/B/C***	A/B/C***
COM3	RS232 or RS485	RS232 or RS485	RS232 or RS485	RS232 or RS485
USB	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host
Real-Time Clock	Yes	Yes	Yes	Yes
Front Function Key	6 (Optional)	6 (Optional)	-	23
Front USB	Yes (Optional)	Yes (Optional)	-	-
Micro SD	Yes	Yes	Yes	Yes

* 128MB NAND Flash only for sub-number 2 and 4

** 1 MB optional

*** A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS



GX-SERIES

Products Selection Guide

(For General Product Group)

The GX series is a WinCE based HMI with an LCD size ranging from 7" to 15". GX is also equipped with 256MB working memory and 1GB of storage memory, that will provide a high performance operation. All the series uses a high resolution color TFT LCD with LED back light to ensure a clear display and a longer backlight life. The ultra slim design is fashionable and easily-mounted. The design is not only stylish, but made of a robust structure enabling the GX series to be used in any stringent environment.

- WinCE OS, 2D Graohic Engin; Real-Time Data Memory



GX615-XSD



GX612-XSD



GX610-TST

Size	15" (4:3)	12.1" (4:3)	10.4" (4:3)
Resolution	1024 x 768	1024 x 768	800 x 600
Working Memory	256 MB	256 MB	256 MB
Built-in Storage Memory	1 GB*	1 GB*	1 GB*
Battery Backed RAM	1 MB	1 MB	1 MB
COM1	RS232/422/485	RS232/422/485	RS232/422/485
COM2	A/B/C**	A/B/C**	A/B/C**
COM3	RS232 or RS485	RS232 or RS485	RS232 or RS485
USB	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host
Audio	Yes (optional)	Yes (optional)	Yes (optional)
Video	-	-	-
Real-Time Clock	Yes	Yes	Yes
Micro SD	Yes	Yes	Yes

* 64MB: WinCE OS, 1GB~64MB: User
** A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS



GX611-WST



GX608-TST



GX607-WST

Size	10.1" (16:9)	8" (4:3)	7" (16:9)
Resolution	1024 x 600	800 x 600	800 x 480
Working Memory	256 MB	256 MB	256 MB
Built-in Storage Memory	1 GB*	1 GB*	1 GB*
Battery Backed RAM	1 MB	1 MB	1 MB
COM1	RS232/422/485	RS232/422/485	RS232/422/485
COM2	A/B/C**	A/B/C**	A/B/C**
COM3	RS232 or RS485	RS232 or RS485	RS232 or RS485
USB	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host
Audio	Yes (optional)	Yes (optional)	Yes (optional)
Video	-	-	-
Real-Time Clock	Yes	Yes	Yes
Micro SD	Yes	Yes	Yes

* 64MB: WinCE OS, 1GB~64MB: User
** A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS



The rich communication interface of the GX series, includes; 3 COM ports, Ethernet and 2 USB ports (1client, 1host), which can provide an easy connection with other devices. The GX is also customizable for your specific needs, so that we can accommodate your unique requirements. Here are some customized options: aluminum front case, audio function and micro SD or NAND flash. The GX series is what Cermate presents for open HMI users who desire for high performance products.

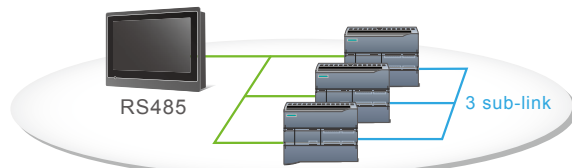
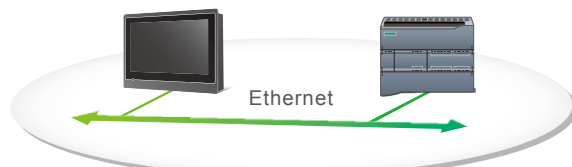
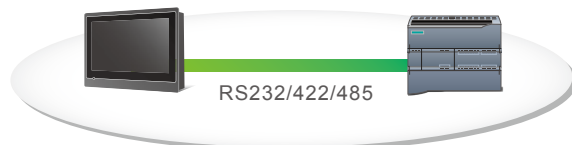
Hardware Feature—Communication

General Description

You can use serial port or ethernet to complete different type of communications.
You can communicate with 1 or multiple devices direct or indirect.

Various Communication Links

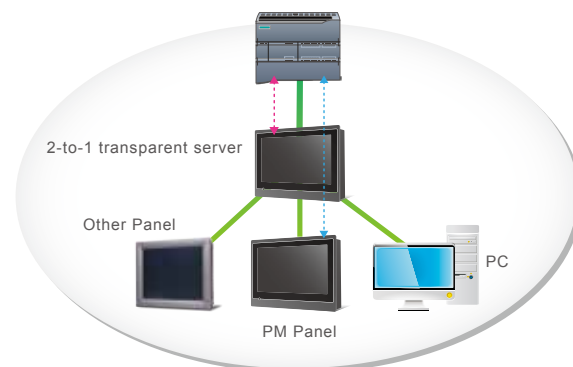
► Direct Link



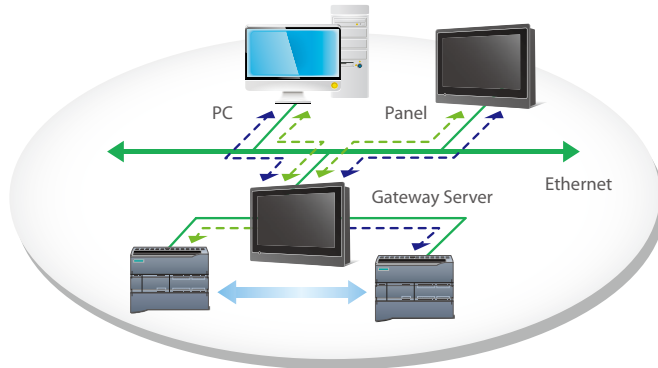
► 2 to 1 connection



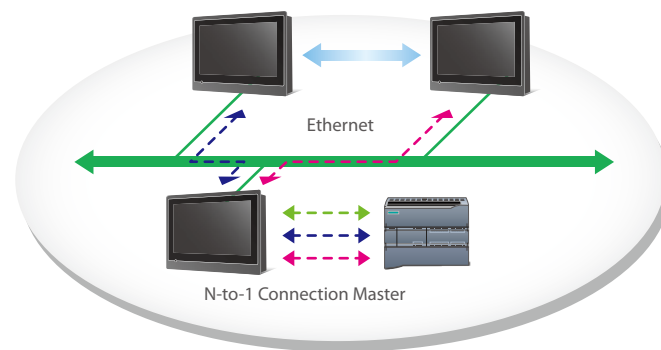
► 2 to 1 transparent connection



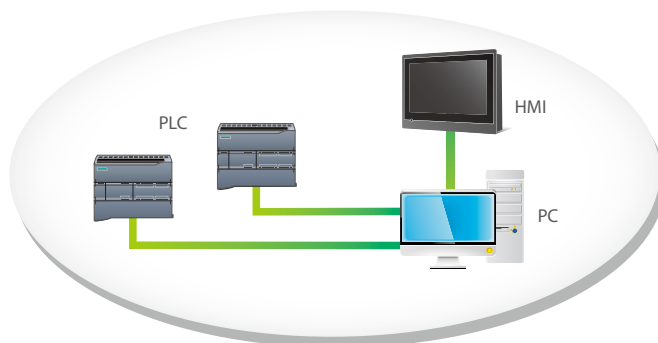
► Gateway Service



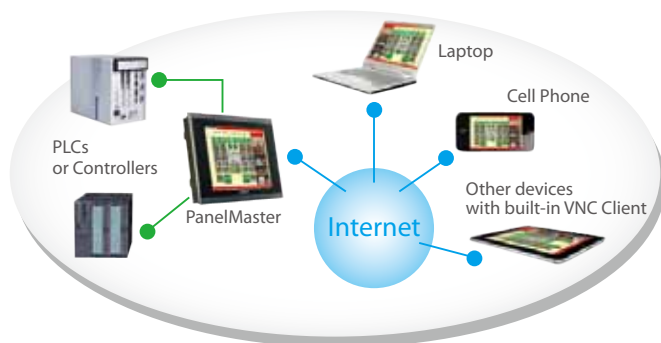
► N-to-1 Communication



► OPC



► VNC



Sub-link

Using RS485 serial connection to link multiple device with same protocol, such as temperature controller and intelligent sensor. Users can activate/stop the sub-link and save the communication status.

Hardware Feature—

We will provide total HMI solution for different various application of automation field



Application Fields

Building Automation

In building automation, the HMI provides an economic and an easy answer for those who need integrated and systematic solutions. Elevators, power system management, AC and alarm systems can be integrated into a more intelligent product solution. You can manage, supervise and record more easily than you've ever experienced before.

Remote Control

Factory Automation

The HMI is booming in the Factory Automation field. With a more accessible price, friendly operations and wide range of selection, successful applications are seen everywhere in our daily life. The automation system for a manufacturing process will provide a more stable output and save you time and expense.

Machine Automation

In the scope of industrialization, automation is required to provide an efficient and precise way of manufacturing. Machine automation can provide operators assistance with physical work, and greatly decrease the need for human sensory as well as mental fatigue. In a production line of machines, the HMI takes the helm of the automation process and helps you manage the whole system from top down.



HMI Development Software - PM Designer



PM Designer is proven in many application fields and is an easy to use integrated development tool featuring solution-oriented screen objects, high-end vector graphics, Windows fonts for multi-language applications, recipes, alarms, data loggers and operation logging. PM Designer also includes online/offline simulation and other utility programs such as Data Transfer Helper (DTH); recipes editors and text editors. PanelMaster runtime, a part of PM Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates, sub-second screen switching, and 24/7 operation.

Software Features

- Allows users to switch multi-language UI dynamically, with Unicode and multilingual screen text supported.
- Provides password protection of designs, macros and upload/download operations.
- Allows to download the runtime data using serial port, Ethernet, USB and Micro SD card.
- Allows the use of USB memory sticks for trouble-free application updates.
- Provides index registers for modifying device addresses at runtime.
- Operation log helps the review and investigation of important events.
- Supports over 380 industrial communication protocols, such as SIMATIC S7-1200, BACNet MSTP/BACNet IP, and more.

Shortcut & Execution Toolbar

Icon Display Improves Work Efficiency

- Shortcut icons designed to show objects, figure type, and operations improving work efficiency.
- Frequently used objects and figures can be registered as Favorites.

Project Workspace

An Intuitive Tree Display Makes Runtime Development Easy

- Easy to create, develop, and manage project property efficiency by project-based management worksheets.

Screen Design Worksheet

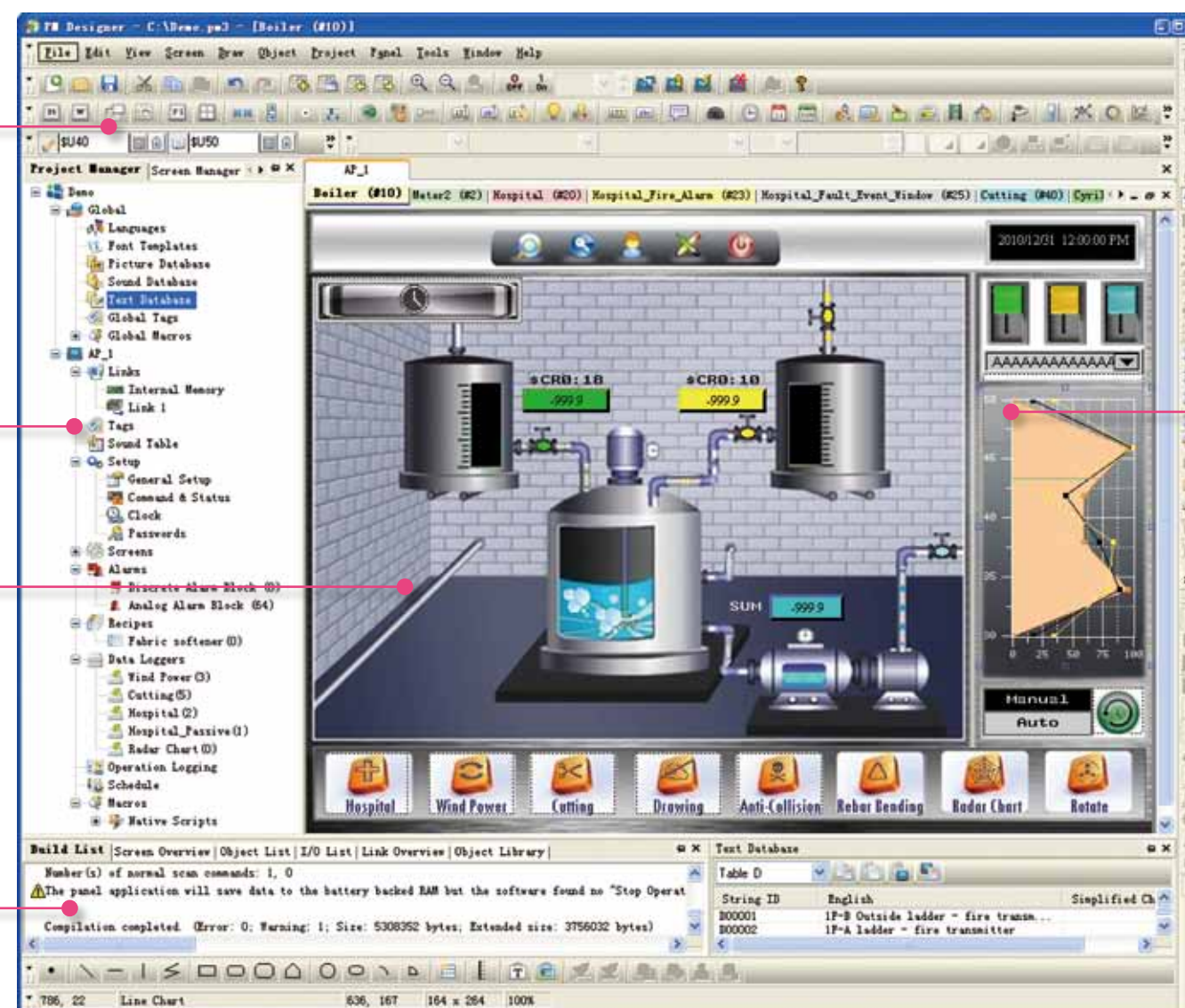
Smart Screen Design

- Easy to view screens during runtime development, adjustable based on user-oriented application.

Message Build List

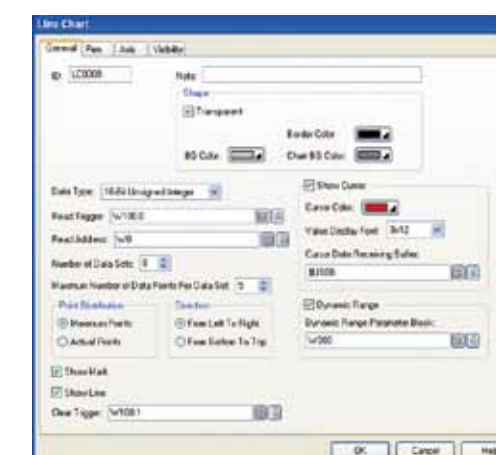
Compile & Simulate Results

- By double clicking on the error message after compilation it will automatically jump to the place where the problem is.



Dialog Box

- The property dialog is displayed by double-clicking the object or figure.
- Figure changes are immediately reflected on screen, thereby simplifying the process and reducing setting errors.
- Easy to set the properties through pop-up dialog box.

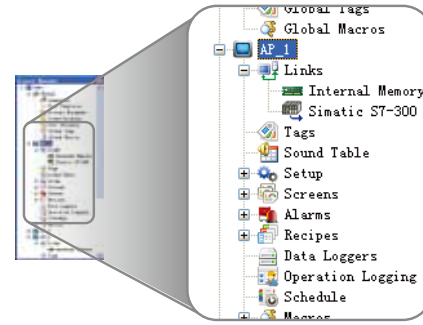


PM Designer Software

► Efficient Project-based Structure to Manage Multiple Applications

Powerful integrated development studio

- One project can have many applications.
- The project tree provides all you need to manage a project.
- Global settings and resources sharable to all applications in a project.
- You can make the most out of existing projects by import/export functions for all kinds of settings.
- Containing entire project in one file makes the maintenance job easy.



► Software Functionalities to Satisfy Various Needs

Possible to achieve a mini-SCADA system

- 10 sets of languages and 20 fonts for each language (TrueType fonts supported)
- 4 communication links with the option to add more RS-485 and TCP/IP sub-links.
- 1 startup macro; 1 main macro; 4 event macros, 4 time macros, no limitation on other kinds of macros
- 64 discrete and 64 analog alarm blocks, 16 recipe blocks and 16 data loggers.
- 1 operation logger, 80 schedules, 7999 screens.



► User Friendly Tools to Make Customized Designs Easier and More Efficient

Intuitive screen editor and toolbars

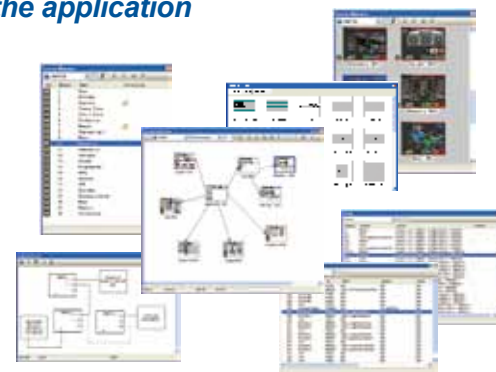
- Real-time WYSIWYG allows you to see the change of object appearance at any time.
- Property dialogs with semi-transparent features will not block your view to screen objects anymore.
- Overlapped objects' properties can be changed by double-clicking the top object.
- Automatic size adjustment of characters and pictures according to the object size is supported.
- Groups a number of objects to move, resize, and modify the common attributes.
- Rotate a picture or change its tone to fit the need of an object.



► Top-down approach for planning and complete understanding of the application

Centralized configuration tools

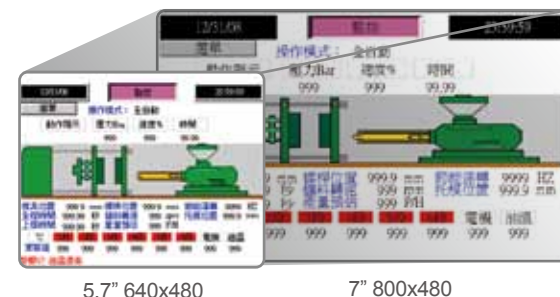
- Screen Manager – A tool for configuration and management of multiple screens
- Screen Overview - Organizing Application Screens in a Graphical Way
- Link Overview - A graphical tool for defining the communication configuration project wise
- Object Library - Sharing the User-defined Objects
- Object List - Displaying all the objects with associated I/O points of a screen in a list
- I/O List - Showing all the I/O points with their purposes of an application in a table



► Changing HMI Model Can Be Done in Seconds

Automatic size adjustment

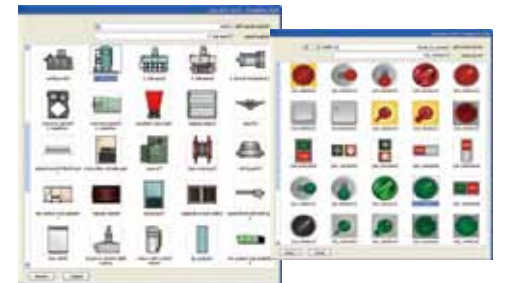
- When changing the screen resolution, all the screen objects are automatically resized to maintain the relative positions and size ratios to the original screens.
- The screen orientation at run time can be predefined in landscape and portrait



► Thousands of Professional Pictures are provided to Beautify Your Screens

Picture libraries and picture database

- Famous industrial pictures from Symbol Factory are ready for use.
- Manufacturer made pictures are ideal for your buttons, lamps, and symbols.
- You can make your own picture libraries.
- The types of importable picture files include: BMP, JPG(JPEG), GIF, WMF, SVG(Scalable Vector Graphics) and PNG.



PanelMaster symbols (.BMP)

► Simple Text Mapping Table Fulfills the Needs for Multiple Languages

Text database and text editor

- Text database, a collection of text tables, contains editable strings for all supported languages in the project. It supports import/export texts in MS Excel.
- Text Editor, a convenient tool for preparing and reusing text among projects, can edit all screen texts in multi-languages.



Import / Export from or to Excel

► Secure Intellectual Properties

Design Protection

- Project files, screens, macros, and password tables can be protected by different passwords.
- Copying and uploading of an application can be prohibited in advance.
- Automatically recovers data from damaged or unsaved file
- The developer password of a project or a PRP password is required to transfer an application to a HMI.



► Multilanguage Enabled UI and Applications

Multilanguage

- You can display the user interface (UI) in different languages.
- You can develop multi-language application in at most 10 languages.
- You can enter an ASCII or Western European or Cyrillic or simplified Chinese string for a variable using a character entry at runtime.



► Plenty of Solution-oriented Screen Objects

Objects

- Provides more than 70 different kinds of objects for common HMI needs, animation, sophisticated functions or industrial specific.



Paris Programmer



G Code Editor

► Supplementing and Extending Configuration for More Advanced Use Cases

Advanced Object settings

- Showing readable or precise information according to dynamic data range, scale range, and time range settings
- Displaying qualified records in alarm display and historic data table according to the query conditions.



PM Designer Software

Provides Complete Recipe Handling Functions

Recipe blocks

- Support up to 16 different groups of recipes.
- Transfer of recipes between PanelMaster and PLCs/files is supported.
- With Recipe Editor you can edit recipes on a PC.
- Many screen objects support recipe data.



Versatile Alarm Monitoring and Display Capabilities

Alarm processing

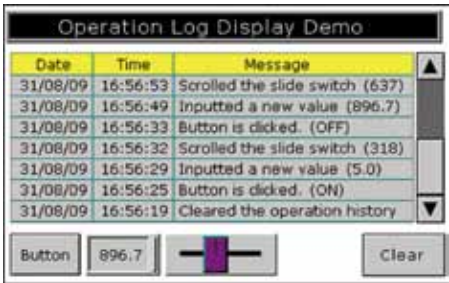
- Up to 64 discrete alarm blocks and 64 analog alarm blocks can be monitored and recorded.
- Up to 8 data values can be read and recorded along with an alarm event.
- A global alarm marquee is supported.
- Saving the logged alarms to a file is supported.



Operations Can Be Recorded for Improving Quality and Efficiency

Operation logging

- The starting time and the stopping time of an application can be recorded.
- The failure of a communication link can be recorded.
- Operation Log Display lists the logged operations process for the operator to review

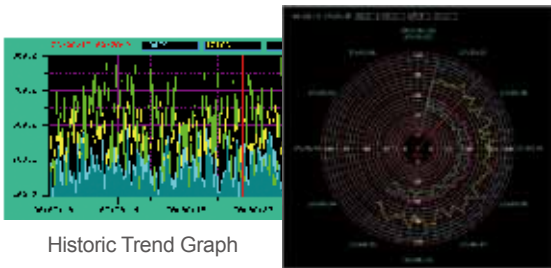


Operation Log Display

Easy to configure data collections and historic data displays

Data loggers

- Can collect data from up to 16 different data sources.
- Data collection can be activated according to a set time or a trigger bit.
- You can save/load collected to/from a file by a function button or macro program.
- Use data logging macro to log processed data instead of original data.
- Use passive data logger to receive data from the primary data logger or a file



Historic Trend Graph

Historic Radar Chart

Performing a specified operation at the designated time

Schedule

- Each schedule can be programmed to either change the value of a specified PLC location or execute a specified macro at the designated time
- Up to 80 schedules can be registered in a panel application
- Enable or disable power- on action or end action
- Operator can use Schedule setting table to modify pre-defined schedule at runtime.

ID	Name	Status	Set	Start Time	End Time	Applied Days
1	Power A	ON	1	07:00:00	23:00:00	MON
2	Power B	ON	1	07:00:00	23:00:00	TUE
3	Temp A	ON	1	09:00:00	17:00:00	MON-TUE-WED-THU-FRI
4	Temp B	ON	1	09:00:00	17:00:00	MON-TUE-WED-THU-FRI
5	Max Temp	ON	1	07:30:00	23:30:00	SAT
6	Safe Phase	ON	1	07:00:00	23:00:00	SUN

Easy-to-use Script Editor and Commands

Script editor and native script commands

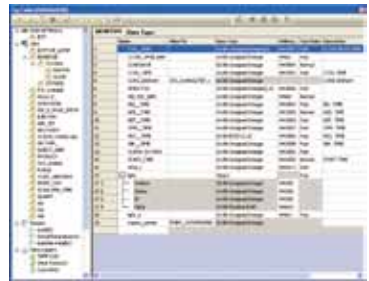
- Easily compose native scripts for HMI using useful and reliable script commands with simple syntax and convenient instant help messages
- Scripts are useful for operations not supported in standard object or feature of PM Designer, such as sequential operations, conditional operations, interactive operations, file operations, data exchange between two connected devices, etc.
- Possible to implement simple communication driver.



Offering cross-user consistency, navigation efficiency and compliance

Tag Management

- By changing tags, you can use any PLC or controller without re-developing the application.
- You can define a tag or an array tag or a structure tag to represent an address or a memory block for the application.
- Tags can be added, renamed, deleted, imported and exported, etc.



Checking, integrating, and optimizing an application intelligently

Compiler

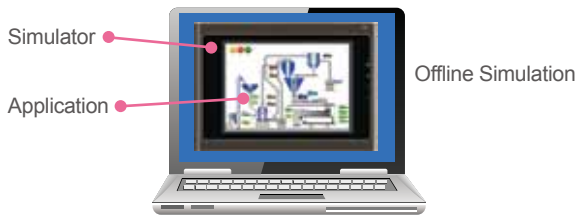
- Checks the correctness and consistency of all the settings and designs.
- Optimizes the communications with connected devices.
- Translates macros into compact and ready-to-execute codes.
- Builds runtime data to be executed by the HMI.



Reduce Time and Effort to Boost Performance through Advanced Simulations

Offline simulation and online simulation

- Offline simulation function can help to experience your design result even before decide to purchase this model.
- Evaluates the communication performance using online simulation before installation.



Provides Various Choices for Application Runtime Data Transfers

Data Transfer Tool & Data Transfer Helper (DTH)

- Uses PM Designer or DTH to transfer an application's runtime data to a PanelMaster through a serial port, an Ethernet port, or a USB port anytime when that PanelMaster is running. (Some PanelMaster models may not have a client USB port to support the data transfer.)
- Without a PC, transfers an application's runtime data to a PanelMaster by using an USB memory stick or Micro SD card.



Providing all the necessary documents for the developers using the software

Help and Release Notes

- Use the search interface to return all documents that match any specified term or set of terms.
- Browse the table of contents which including reference documentation, sample codes, technical articles and more. It is in HTML format and contains over 500 topics and 1000 pictures.
- Use index to jump to some of the most popular functions or features of the software.
- Browse the changes or enhancement made to the features of the software.



Specification of X-Series



Model Name		PX150-XSD	PX121-XSD	PX104-TST	PX070-WST
Sub-models		4 / 6	4 / 6	4 / 6	4 / 6
Display	Size	15" diagonal	12.1" diagonal	10.4" diagonal	7" diagonal
	Max. Resolution	1024*768	1024*768	800*600	800*480
	Type	TFT LCD with LED Backlight			
	Max. Colors	16-bit/24-bit (Software selectable)			
	Backlight Life (hr)	50000	50000	20000	20000
	Display Contrast	700	700	400	500
	Luminance (cd/m2)	350	600	400	300
Touch Screen		5-wire Analog Resistive Type		4-wire Analog Resistive Type	
CPU		RISC ARM11 800MHz			
Battery Backup RAM		1MB			
Working Memory		256MB			
NAND Flash ROM		1GB (SLC Type)			
Real-Time Clock (RTC)		Yes			
Communication Interface	Micro-SD Slot	YES(SDHC)			
	USB Client	YES(USB 2.0)			
	USB Host	YES(USB 1.1)			
	COM1 / COM3	COM1: RS232/422/485, COM3: RS232 or RS485			
	COM2	COM2: A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS			
	Ethernet	YES			
Front Function Keys		N/A			
Audio		6: YES			
Video in		6: YES, Module Depth: 20mm			
Front USB Host Port		N/A	N/A	YES (1.1)	YES (1.1)
Power	Supply Voltage	24VDC±10% Isolated			
	Consumption	20W	20W	15W	13W
Environment	Operating Temperature	-20°C~60°C(-25°C~75°C optional with AL front, CE certified only)			
	Relative Humidity	10%~90%			
	Shock (operation)	10~55Hz(X,Y,Z direction, 1G, 30 Mins shock testing)			
	EMI	FCC Part 15 Class A			
	CE	EN61000-6-2, EN61000-6-4			
	UL Certification	YES			
	Ingress Protection	IP66			
	Cooling	Natural Cooling			
Dimension WxHxD		399.1 x 297.6 x 55	317.4 x 243.8 x 58	280.3 x 222.3 x 45	213.6 x 158.6 x 40.5
Cutout Dimension AxB		384.5 x 283.0	301.5 x 228.0	259.5 x 201.5	192.0 x 138.5
Net Weight		2.68Kg	1.9Kg	1.25Kg	0.8Kg

Specification of K-Series



Model Name		PK100-WST	PK070-WST	PK043-WST
Sub-models		20 / 40	20 / 40	10 / 30
Display	Size	10.1" diagonal	7.0" diagonal	4.3" diagonal
	Max. Resolution	1024*600	800*480	480*272
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life (hr)	20000		
	Display Contrast	500	500	500
	Luminance (cd/m2)	200	280	250
Touch Panel		4 Wire Analog Touch Panel		
CPU		RISC ARM9 32Bit		
Backup SRAM		128KB		
Working Memory		32MB		
Built-in Storage Memory		8MB+128MB (NAND Flash)		8MB
Real-Time Clock (RTC)		YES		
Communication Interface	Micro-SD Slot	N/A		
	USB Client	YES(USB 1.1)		
	USB Host	YES(USB 1.1)		
	COM1 / COM3	COM1: RS232/RS422/RS485, COM3: RS232 or RS485		
	COM2	N/A		
	Ethernet	4: YES	4: YES	3: YES
Front Function Keys		N/A		
Audio (optional)		N/A		
Video (optional)		N/A		
Front USB Host Port		N/A		
Power	Supply Voltage	24VDC±10% Isolated		
	Consumption	20W	15W	6W
Environment	Operating Temperature	0°C~50°C		
	Relative Humidity	10%~90%		
	Shock (operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 Mins shock testing)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	N/A		
	Ingress Protection	IP65		
Cooling		Natural Cooling		
Dimension WxHxD		270.1 x 212.1 x 42.5mm	203.5 x 149.0 x 33mm	130.0 x 106.2 x 39mm
Cutout Dimension AxB		259.5 x 201.5mm	192.0 x 138.5mm	119.0 x 93.0mm
Net Weight		1.1Kg	0.65Kg	0.35Kg

Specification of T-Series



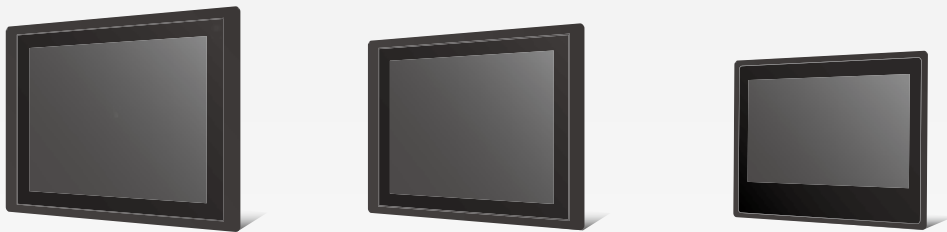
Model Name		PT150-XSD	PT104-TST	PT100-WST
Sub-models		4	1 / 2 / 4	1 / 2 / 4
Display	Size	15" diagonal	10.4" diagonal	10.1" diagonal
	Max. Resolution	1024*768	800*600	1024*600
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life (hr)	50000	20000	
	Display Contrast	700	400	500
	Luminance (cd/m2)	350	400	200
Operation		5-wire Analog Resistive Type	4 wires analog resistive	
CPU		RISC ARM9 32Bit		
Backup SRAM		128KB (Optional: 1MB)		
Working Memory		64MB		
Built-in Storage Memory		1: 8MB, 2 / 4: 8MB+128MB (NAND Flash)		
Real-Time Clock(RTC)		Yes		
Communication Interface	Micro-SD Slot	YES	2/4: YES	2/4: YES
	USB Client	YES(USB 1.1)		
	USB Host	YES(USB 1.1)		
	COM1 / COM3	COM1: RS232/422/485; COM3: RS232 or 485		
	COM2	COM2: A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS		
Ethernet		4: YES		
Front Function Keys		N/A	N/A	6-keys (optional)
Audio (optional)		N/A		
Video (optional)		N/A		
Front USB Host Port		N/A		
Power	Supply Voltage	24VDC±10% Isolated		
	Consumption	25W	20W	20W
Environment	Operating Temperature	-10°C~60°C		
	Relative Humidity	10%~90%		
	Shock (operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 Mins shock testing)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	Yes		
	Ingress Protection	IP66		
Cooling		Natural Cooling		
Dimension WxHxD		399.1 x 297.6 x 55mm	270.1 x 212.1 x 42.5mm	270.1 x 212.1 x 42.5mm
Cutout Dimension AxB		384.5 x 283.0mm	259.5 x 201.5mm	259.5 x 201.5mm
Net Weight		2.68Kg	1.2Kg	1.2Kg



Model Name		PT080-TST	PT070-WST	PT043-WST	PT043-WSK
Sub-models		1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	-
Display	Size	8" diagonal	7" diagonal	4.3" diagonal	4.3" diagonal
	Max. Resolution	800*600	800*480	480*272	480*272
	Type	TFT LCD with LED Backlight			
	Max. Colors	16-bit			
	Backlight Life (hr)	20000			
	Display Contrast	500	500	500	500
	Luminance (cd/m2)	250	300	250	400
Operation		4 wires analog resistive			
CPU		RISC ARM9 32Bit			
Backup SRAM		128KB (Optional: 1MB)			
Working Memory		64MB		32MB	
Built-in Storage Memory		1: 8MB, 2/4: 8MB+128MB (NAND Flash)			8MB
Real-Time Clock(RTC)		Yes			
Communication Interface	Micro-SD Slot	2/4: YES			N/A
	USB Client	YES(USB 1.1)			
	USB Host	YES(USB 1.1)			
	COM1 / COM3	COM1: RS232/422/485; COM3: RS232 or 485			
	COM2	COM2: A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS			RS422 / 485
Ethernet		4: YES			N/A
Front Function Keys		6-keys (optional)	6-keys (optional)	N/A	23-keys
Audio(optional)		N/A			
Video (optional)		N/A			
Front USB Host Port		N/A			
Power	Supply Voltage	24VDC±10% Isolated			
	Consumption	20W	15W	6W	5W
Environment	Operating Temperature	-10°C~60°C			
	Relative Humidity	10%~90%			
	Shock (operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 Mins shock testing)			
	EMI	FCC Part 15 Class A			
	CE	EN61000-6-2, EN61000-6-4			
	UL Certification	Yes			N/A
	Ingress Protection	IP66			
Cooling		Natural Cooling			
Dimension WxHxD		231.5 x 174.5 x 42.5	188.0 x 143.3 x 36.0	130.0 x 106.2 x 39	172.0 x 102.0 x 30
Cutout Dimension AxB		221.0 x 164.0	175.0 x 132.5	119.0 x 93.0	160.5 x 89.5
Net Weight		0.93Kg	0.6Kg	0.35Kg	0.33Kg



Specification of GX-Series



Model Name		GX615-XSD	GX612-XSD	GX610-TST
Sub-models		4	4	4
Display	Size	15" diagonal	12.1" diagonal	10.4" diagonal
	Max. Resolution	1024*768	1024*768	800*600
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life (hr)	50000		20000
	Display Contrast	700	700	400
	Luminance (cd/m2)	350	600	400
Touch Panel		5 wires analog resistive		4 wires analog resistive
CPU		RISC ARM11 800MHz		
Backup SRAM		1MB		
Working Memory		256MB		
Built-in Storage Memory		1GB (64MB:Win CE OS)		
Real-Time Clock(RTC)		YES		
Communication Interface	Micro-SD Slot	YES		
	USB Client	YES(USB 2.0)		
	USB Host	YES(USB 1.1)		
	COM1 / COM3	COM1: RS232/RS422/RS485; COM3: RS232 or RS485		
	COM2	COM2: A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS		
Ethernet		YES		
Front Function Keys		N/A		
Audio (optional)		YES		
Video (optional)		N/A		
Front USB Host Port		N/A		
Power	Supply Voltage	24VDC±10% Isolated		
	Consumption	25W	25W	15W
Environment	Operating Temperature	-20°C~60°C(-25°C~75°C optional with AL front,CE certified only)		
	Relative Humidity	10%~90%		
	Shock (operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 Mins shock testing)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	YES		
	Ingress Protection	IP66		
Cooling		Natural Cooling		
Dimension WxHxD		399.1 x 297.6 x 55mm	317.4 x 243.8 x 58mm	280.3 x 222.3 x 45mm
Cutout Dimension AxB		384.5 x 283.0mm	301.5 x 228.0mm	259.5 x 201.5mm
Net Weight		2.68Kg	1.9Kg	1.25Kg



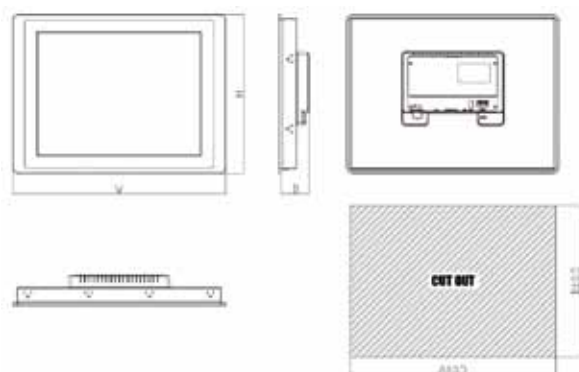
Model Name		GX611-WST	GX608-TST	GX607-WST
Sub-models		4	4	4
Display	Size	10.1" diagonal	8" diagonal	7" diagonal
	Max. Resolution	1024*600	800*600	800*480
	Type	TFT LCD with LED Backlight		
	Max. Colors	16-bit		
	Backlight Life (hr)	20000		
	Display Contrast	500	500	500
	Luminance (cd/m2)	250	250	300
Touch Panel		4 wires analog resistive		
CPU		RISC ARM11 800MHz		
Backup SRAM		1MB		
Working Memory		256MB		
Built-in Storage Memory		1GB (64MB:Win CE OS)		
Real-Time Clock(RTC)		YES		
Communication Interface	Micro-SD Slot	YES		
	USB Client	YES(USB 2.0)		
	USB Host	YES(USB 1.1)		
	COM1 / COM3	COM1: RS232/RS422/RS485; COM3: RS232 or RS485		
	COM2	COM2: A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS		
Ethernet		YES		
Front Function Keys		N/A		
Audio (optional)		YES		
Video (optional)		N/A		
Front USB Host Port		N/A		
Power	Supply Voltage	24VDC±10% Isolated		
	Consumption	15W	13W	13W
Environment	Operating Temperature	-20°C~60°C(-25°C~75°C optional with AL front,CE certified only)		
	Relative Humidity	10%~90%		
	Shock (operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 Mins shock testing)		
	EMI	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL Certification	YES		
	Ingress Protection	IP66		
Cooling		Natural Cooling		
Dimension WxHxD		280.3 x 222.3 x 45mm	241.6 x 184.6 x 46mm	213.6 x 158.6 x 40.5mm
Cutout Dimension AxB		259.5 x 201.5mm	221.0 x 164.0mm	192 x 138.4mm
Net Weight		1.25Kg	1.1Kg	0.8Kg



Cutout

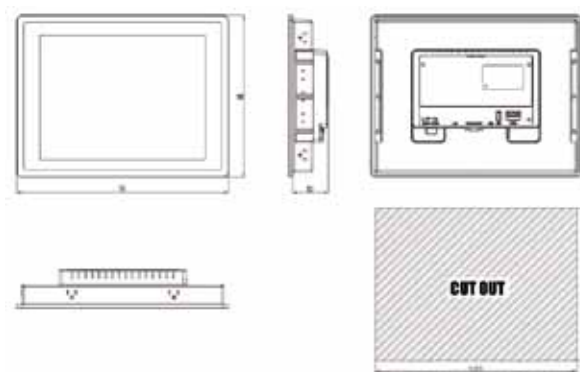
PT150-XSD / PX150-XSD / GX615-XSD

Dimension WxH 399.1 x 297.6mm
Cutout Dimension Ax B 384.5 x 283.0mm



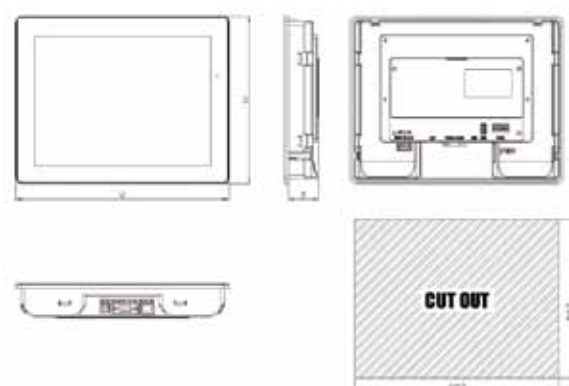
PX121-XSD / GX612-XSD

Dimension WxH 317.4 x 243.8mm
Cutout Dimension Ax B 301.5 x 228.0mm



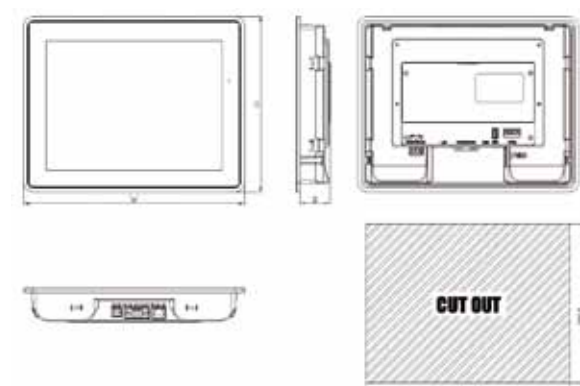
PT104-TST / PT100-WST

Dimension WxH 270.1 x 212.1mm
Cutout Dimension Ax B 259.5 x 201.5mm



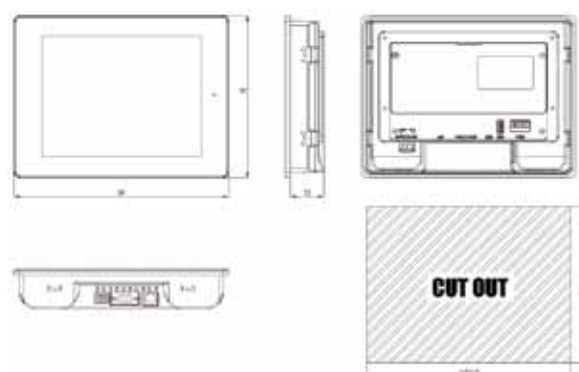
PX104-TST / GX610-TST / GX610-WST

Dimension WxH 280.3 x 222.3mm
Cutout Dimension Ax B 259.5 x 201.5mm



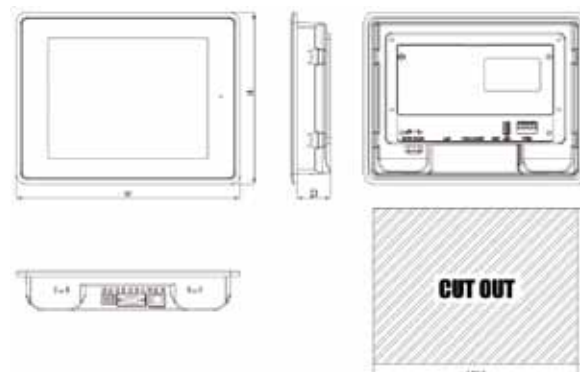
PT080-TST

Dimension WxH 231.5 x 174.5mm
Cutout Dimension Ax B 221.0 x 164.0mm



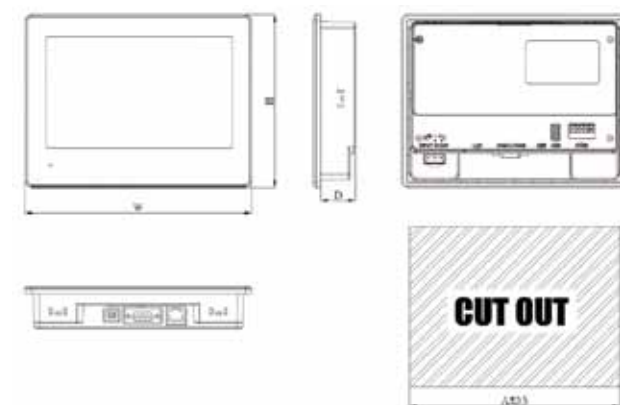
GX608-TST

Dimension WxH 241.6 x 184.6mm
Cutout Dimension Ax B 221.0 x 164.0mm



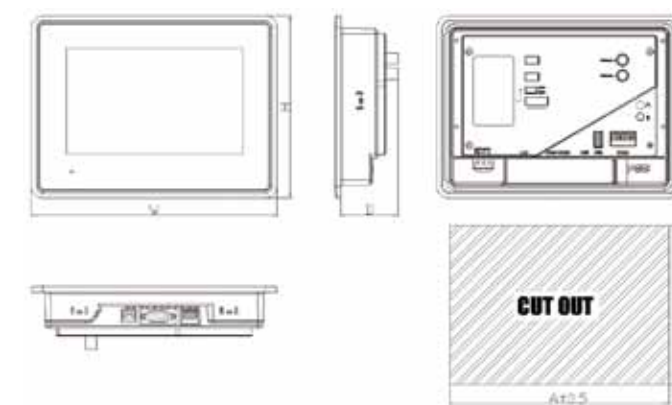
PT070-WST

Dimension WxH 188.0 x 143.3mm
Cutout Dimension Ax B 175.0 x 132.5mm



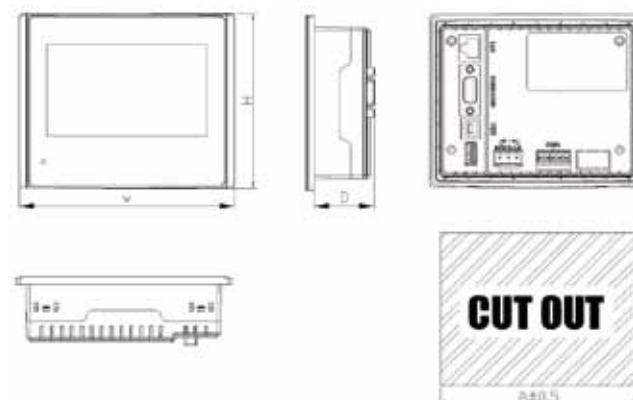
PX070-WST / GX607-WST

Dimension WxH 213.6 x 158.6mm
Cutout Dimension Ax B 192.0 x 138.5mm



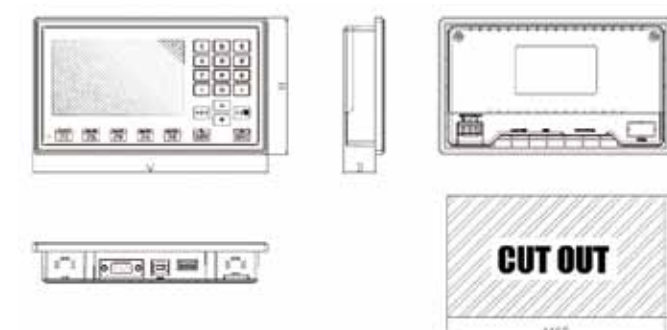
PT043-WST

Dimension WxH 130.0 x 106.2mm
Cutout Dimension Ax B 119.0 x 93.0mm



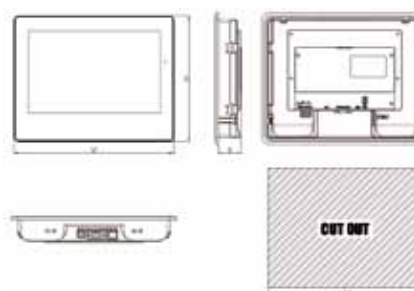
PT043-WSK

Dimension WxH 172.0 x 102.0mm
Cutout Dimension Ax B 160.5 x 89.5mm



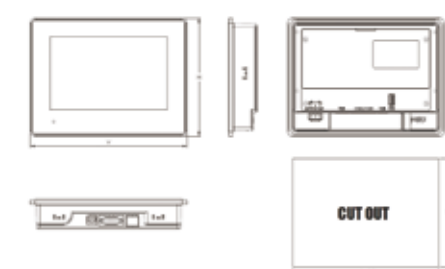
PK100

Dimension WxH 270.1 x 212.1mm
Cutout Dimension Ax B 259.5 x 201.5mm



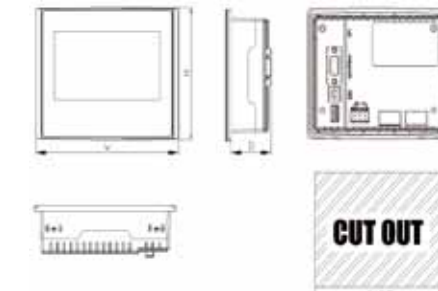
PK070

Dimension WxH 203.5 x 149.0mm
Cutout Dimension Ax B 192.0 x 138.5mm



PK043

Dimension WxH 130.0 x 106.2mm
Cutout Dimension Ax B 119.0 x 93.0mm



Communication Port (COM) Applicable PLC Controllers

Brand	Model
ABIDO Automation Co., Ltd.	AD-4401 Weighing Indicator ACR420 984 Device/Slave (RTU)
Adlee Powertronic Co. Ltd.	MS/AP/AS Series Inverter (RTU) BL/D305 Series (RTU)
Advantech	Null PLC ADAM (Modbus RTU) ADAM-4000 (ASCII)
AIGO Technologies Corporation	SE500 Series (Modbus RTU) Micrologix 1000/1500 SLC 5/03, 5/04
Allen Bradley	DH-485 (COM) PLC-5 SLC 5/03, 5/04 (CRC) CompactLogix/ControlLogix Tag FC Type(Modbus) Modbus Master (RTU) Modbus Device/Slave (RTU)
Astraada HMI	Modicon Device/Slave (RTU, Quantum) Modbus Master (RTU; Non-volatile slave data)
Automation Technology Co., Ltd.	BLDC NLV/KLV Series
Banner Engineering Int'l Inc.	BSP01 Series
CAPAC	TC
CHINO Corporation	DB1000 Digital Indicating Controller (ASCII)
CMZ Sistemi Elettronici	NF0 Controllers FCT Controllers SD Drivers SDS Drivers MDM Drivers
CTB Technologies Corporation	IMS Servo Controller
Danfoss Group	VLT 2800 Series (FC Protocol)
DEIF A/S	Modbus RTU (COM port) WSS/WSS-L DVP-ES/SS/EP/EH DVP-ES/SS/EP/EH (No block read) DVP-SV(RTU)
Delta Corporation	VFD-M Inverter (ASCII) VFD-B Inverter (ASCII) DTC1000/2000 Temperature (ASCII) DTA Temperature (ASCII) ASDA-A Servo Controller (ASCII) ASDA-B Servo Controller (ASCII) ASDA-A2 Servo Controller (ASCII) DRS2000 Series Inverter DRS2800 M Series Inverter
Dirise Electric Technology Co.,Ltd.	EC Series (RTU)
Emerson Network Power	EV1000 Series Variable Speed Driver
Epson Corporate	Epson LQ Matrix Printer
Eura Drivers Electric Corp.	Eura EF1S/1N Eura EF2N Eura Inverter (Modbus RTU) Eura Inverter (Modbus ASCII)
Fatek Automation Corp.	FATEK FBs/FBe
Festo Corporation	FPC/FEC Series NB Series PXR Series Temperature (RTU)
Fuji Electric Corporation	FRENIC-VP (RTU) FRENIC5000G11/P11 (Fuji) FRENIC-Mini/Eco/Multi/Mega(RTU)
FVK Automation Co., Ltd.	F Series Inverter 90 Series SNP VersaMax Series (SNP) 90 and RX3i Series (SNP) 90 Series CCM
GE Corporation	SE5000 GA400 Temperature (RTU) NC Series
Gigarise Technology Co., Ltd.	HW Series (RTU)
GOFAST Corporation	Air Screw Compressor
Haiwell Technology Co., Ltd	SJ200 Inverter
Hanbell Precise Machinery Co., Ltd.	H/EH Series EHV Series (Procedure 1) H-252C
Hitachi Industrial Equipment Systems Co., Ltd	AD Series Servo Drives Computer as Slave (COM) Computer as Master (COM)
Hitech	Computer as Slave V2 (COM) Computer as Master V2 (COM)
Holip Electronic Technology Co.,Ltd.	HLP-C+/CP

Brand	Model
Honeywell	BACnet/MSTP BACnet Modbus Device/Slave (RTU, 255) Modbus Device/Slave (RTU, 255, NoBlock)
Hunjoen Electronic Co., Ltd.	H_Tech PID CONTROLLER
IECCO	Sinus Penta Inverter (RTU) H2u (CPU Port)
Inovance Control Technology Co., Ltd.	MD Series Inverter (RTU-1) IS Servo (RTU)
Integrated Flow Systems	iPurge Source Controller
JETTER	NANO Series JetControl 24x Series KV Series KV-1000 KV-L20V,KV-NANO KV-L20 KV-3000
Keyence Corp.	PS4-201-MM1 SUCONET K
Klockner Moeller Corporation	K Sequence Series Direct Logic Series Direct 06 Series (K Sequence) Direct 06 Series (DirectNET)
Koyo Electric Corp.	93xx Servo Controllers (LECOM A/B)
Lenze Drive Systems GmbH	Master-K Series CNet K120S CPU Port Master-K Loader GLOFA GM Series CNet XBM-DR16S GLOFA GM Loader XEC/XGI CNet XGT/XGK (CPU) XGL-C22A
LG Industrial Systems	LGA Series(as Slave) LGA Series (as Master) EX Series (CPU Port) LustBus ServoC/CDE Series
LG System	LustBus CDD Series
Liyan Electric Industrial Ltd.	FP Series Computer Link VF0C Series Inverter VF100 Series Inverter
Lust Antriebstechnik GmbH	MC2 PID Controller MC 5738 (RTU)
Matsushita Electric Works	PRETA
Maxtech	MC Series (RTU)
Maxthermo	UTC Servo Controller
Mean Well Enterprises Co., Ltd.	nDX Controller
Megmeet	Melsec-FX (CPU Port) Melsec-Q/QnA (Link Port) Melsec-Q00/01 (CPU Port) Melsec-Q02H (CPU Port) Melsec-Q02 (CPU Port) Melsec-Q02U (CPU Port) Melsec-Q00J (CPU Port) Melsec-FX2n (CPU Port) Melsec-FX3U (CPU Port) Melsec-FX3U (Link Port) Melsec-AnN/AnS (Link Port) Melsec-AnN/AnS Protocol 4 FX2n-10GM/20GM Melsec-A1S/A2S (CPU Port) FR-E500 Series (485) Melsec-A3N/A1SH (CPU Port) Melsec-AnA/AnU (Link Port) Melsec-AnA/AnU Protocol 4 Servo Amplifier MR-J2S-A Servo Amplifier MR-J3-A Servo Amplifier MR-J4-A Melsec-A2A/A2AS (CPU Port) Melsec-Q06H (CPU Port) Melsec-Q12H (CPU Port) Melsec-Q03U (CPU Port) Melsec-Q00U (CPU Port) GOT-F900 Emulator (1:1 Format 1 & 2) Melsec-Q01U (CPU Port)
Mitsubishi Electric Corp.	EV Linear Gage Counter (ASCII)
Modicon Corp.	Modicon 984 Master (RTU) Modicon 984 Master (RTU; Little Memory)

Brand	Model
Modicon Corp.	Modicon 984 Device/Slave (RTU) Modbus Master (ASCII) Modbus Master (ASCII; Little Memory) Modbus Device/Slave (ASCII) Modicon Device/Slave (RTU, Quantum) TSX Premium (Uni-Telway) TSX Quantum (Uni-Telway) Twido (Modbus RTU) Modbus Master (RTU; Non-volatile slave data) Modbus Master (ASCII; Non-volatile slave data) PSTC (Temperature Controller) PSBD (Bushless Driver) PSSD (Stepping Driver) PSMC (Motion Controller) PSNC (Embedded NC)
Newtop Co., Ltd.	Sysmac C Series Host Link Sysmac CV Series Host Link Sysmac CS/CJ Series Host Link Sysmac CS/CJ Series (FINS) Sysmac CP Series (FINS)
Omron Corporation	E5CN Temperature (CompoWay/F) E5CN Temperature (Modbus RTU) EJ1 Temperature (CompoWay/F) KM100 (CompoWay/F) 3G3MV Inverter (RTU) E9 Temperature Series E904 Temperature (RTU) HT Series Temperature Controller FP Series MINAS A4 Series
Pan-Globe Corp.	Null PLC General Device (COM) Data Sharer (RS485) Modbus Master (RTU) Modbus Master (RTU; Little Memory) Modbus Master (RTU; Non-volatile slave data) Modbus Device/Slave (RTU) Modbus Device/Slave (RTU, 16Words) Modbus Device/Slave (Word order in big-endian) Modbus Device/Slave (RTU; No block read) Modbus Device/Slave (RTU, 30Words) Modbus Device/Slave (ASCII) Modbus Device/Slave (ASCII; No block read)
Panasonic Corporation	Barcode Scanner Epson Matrix Printer PC Series PLC Module Compax3
PanelMaster	El-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series
Parker Hannifin	ATV31 Inverter (RTU)
RICH Electric Co., LTD.	Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCII)
RKC Instrument Inc.	JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; Network) Simatic S7-300 (MPI Port) Simatic S7-300 (PC Adaptor) Simatic S5 3964R Simatic S5
Saia Burgess	TP03 Series (Modbus RTU) TP02 Series
Samwon Technology	TAIE FY100/900 Series (RTU) TAIE FY100/900 Series (TAIE) FY series DIGITAL PID CONTROLLER
Shneider Electric	TSDA Series AC Servo TP03 Series (Modbus RTU) TP02 Series TSTA Series AC Servo TTX-700 (Modbus RTU)
Shinko Technos Co., Ltd.	TTM-000 Series (TOHO Protocol) TTM-200 Series (TOHO Protocol)
Siemens AG	
Taian Automation Co.,Ltd.	
Taiwan Instrument & Control Co., Ltd.	
Teco Electric & Machinery Co.,Ltd.	
TOHO Electronics Inc.	


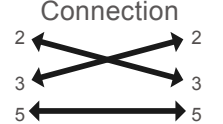

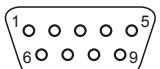

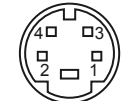
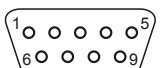
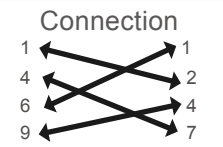
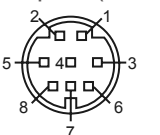
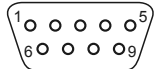
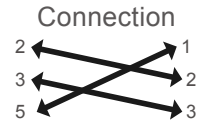
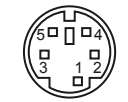



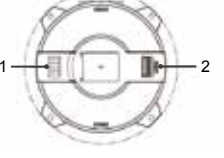





Brand	Model
Tokyo Keiso	UCM-04A
Vigor Corporation	M/VB Series SDC35/36 Temperature (RTU) SDC35/36 Temperature (ASCII) MA500 FA Controller (ECL Host) DMC10 Controller (RTU) DMC10 Controller (ASCII)
Yamatake Corporation	MX30 MX50 Σ-II SGDM/H Series AC Servo MP Series Controller (Memobus) V7 inverter (Memobus) NS600 Servo Controller
Ye Li Electric Machinery Co., Ltd.	YPV Servo Controller YJD Servo Controller
Yokogawa Electric Corporation	FA-M3 Series (CPU Port) AI-7048 (AiBus)
Yudian Automation Technology Ltd.	AI518/ 708/ 808/ 518P/ 708P/ 808P Controller (Albus)
Zhuhai Motion Control Motor Co., Ltd.	BP Series PSDA driver (RTU)

Communication Port (Ethernet)

Brand	Model
Advantech	BACnet/IP BAS BACnet/IP ADAM-4000 (ASCII) ADAM-6000 (ModBus TCP/IP)
Allen Bradley	MicroLogix 1000/1500 via 1761-NET-ENI MicroLogix CompactLogix/ControlLogix Ethernet/IP Tag
Astraada HMI	ModBus Master (TCP/IP) ModBus Device/Slave (TCP/IP) ModBus Master (TCP/IP; Type 2) ModBus Device/Slave (TCP/IP; Type 2)
CMZ Sistemi Elettronici	FCT Controllers(TCP/IP; Type 2)
DEIF A/S	TCP/IP Modbus (Ethernet port)
EasyIO	EasyIO-30 (RTU)
Fatek Automation Corp.	Fatek FBs/FBe (TCP)
GE Corporation	SRTP Ethernet SRTP Ethernet (Micro)
Hitachi Industrial Equipment Systems Co., Ltd	EH/EHV Series (Ethernet; TCP) EH/EHV Series (Ethernet; UDP)
Honeywell	BACnet/IP
JETTER	JetControl 24x Series (Ethernet)
Keyence Corp.	KV-5000
Lenze Drive Systems GmbH	E94AYCEN GCI(TCP/IP) Protocol
Mirle Automation Corporation	Fama SoftPLC Ethernet ModBus Device/Slave (TCP/IP)
Mitsubishi Electric Corp.	Q Ethernet Q/L Ethernet (ASCII Mode) L Ethernet (Binary Mode) Melsec-FX3U (MC-Protocol) ModBus Master (TCP/IP) ModBus Device/Slave (TCP/IP) ModBus Master (TCP/IP; Type 2) ModBus Device/Slave (TCP/IP; Type 2)
Modicon Corp.	Sysmac CS/CJ Series FINS/TCP
Omron Corporation	FP Series Computer Link
Panasonic Corporation	Data Sharer (UDP) Ping Modbus Device/Slave (TCP/IP) Internal Memory
PanelMaster	XC ModBus TCP
PORIS	PCD Series (Ether-S-Bus)
Saia Burgess	Simatic S7-300 Ethernet Module (CP343)
Siemens AG	SIMATIC S7 (Ethernet) SIMATIC S7-200 SMART (Ethernet)
TPM	EPC-1000
Vware	N-to-1 Master (Ethernet) N-to-1 Slave (Ethernet)
WAGO Kontakttechnik GmbH & Co. KG	WAGO-I/O-SYSTEM 750
Yaskawa Corporation	ModBus Device/Slave (TCP/IP) Extended MEMOBUS
Yokogawa Electric Corporation	FA-M3 Series (UDP) FA-M3 Series (TCP)

Note: * The brand names are listed in alphabetical order.
* This driver list will be updated at any time, please contact us for the latest information.

Accessories & Others

Cable	FCB-FE0-009	D-sub 9 pins (male) 	2m Download Cable Connection 	D-sub 9 pins (female) 
	FCB-FE0-011	D-sub 9 pins (male) 	Cable for Fatek Connection 	FBs 4 pins (male) 
	FCB-FE0-018	D-sub 9 pins (male) 	Cable for Mitsubishi FX Connection 	FX 8 pins (male) 
	FCB-FE0-019	D-sub 9 pins (male) 	Cable for Panasonic FP Connection 	FP 5 pins (male) 
	FCB-XD0-039		USB Download Cable 	
	UR25		USB-RS232/422/485 	
Others	UR43		USB-to-Serial CABLE 1. UR43-232M9-B1L20C01—USB to Cermate HMI cable 2. UR43-422R8-B1L20M01—USB to Mitsubishi PLC cable 3. UR43-485M9-B1L20S01—USB to Siemens PLC PPI cable	
	HPB-CER-001/002	001: RS422/485 002: RS232/485 	HMB-CER-017 RS232(COM1/3) 	HMB-CER-018 RS422/485(COM1) RS232(COM1&COM3) 
			HMB-CER-022 RS422/485(COM1) RS232(COM1&COM3) 	

Screen Protector



P2M-WD0-406 (Suitable for 3.5" / 4.3" / 5.6" / 5.8")
P2M-ET0-022 (Suitable for 7.0" / 8.0")
P2M-ET0-023 (Suitable for 10.1" / 10.4" / 12.1")
P2M-ET0-024 (Suitable for 15")

PANEL EXPRESS

Designed for Convenience

PanelExpress is a Windows based HMI runtime. It enables you to utilize the resources of a PC, such as computation power, multimedia, and bigger screen, to realize a high-end sophisticated HMI. Its configuration software, PM Designer, is also the development tool for K/T/X-Series RTOS based HMI products. Thanks to the cross platform flexibility offered by PM Designer, switching hardware for performance becomes an easy job.



General Features

- Cost effective Windows based HMI runtime
- Over 50 of screen objects can fulfill all types of HMI operating and viewing needs for machine automation
- Supports 16 communication links for different application
- No limitation on the internal I/O points used in an application
- Supports over 350 PLC communication protocols
- Supports data collection, alarm monitoring, recipe handling, and history of operation logging
- Provides a complete set of useful macro commands. Macro programs can be embedded in objects, screens, and the global process

Advanced Features

- Number of communication links can be up to 128
- Monitors up to 64 discrete alarm blocks and 64 analog alarm blocks.
Up to 65535 alarms can be defined



Ordering Information

X-Series PX 070 – W S T 4 B – U 6 R 4 C00

Model Name PX PX-Series	Resolution T 320x240/800x600 A 320x234 W 480x272/800x480/1024x600 X 1024x768	Case Color & Material F Plastic/Silver-Black B Black Color G Aluminum Color U Aluminum with Dark Gray Slivery A Aluminum Case (7")	OEM Code 00(Empty) Standard 01-FF For OEM customer
LCD Size 070 7" 080 8" 100 10.1" 104 10.4" 121 12.1" 150 15"	Operation S Standard Mode K Front Key + USB U Front USB X Extension Key F Front Key	Com2 A RS422/485 B RS232/485 C RS232(RTS/CTS)	BKRAM & Memory 4 1MB BKRAM
Mode T Touch Panel W Wall Mount D 5-wires Touch H Handheld (Black) J Handheld(Orange)	Sub Model 4 1GB NAND Flash; RTC; Micro SD Slot; Ethernet 5 4 + Audio Out 6 4 + Camera Module + COM4 7 6 + Audio Out	PCB Coating 5/6 Codec Touch IC 3 Enhanced PCB Coating	Com3 Spec. & Temp. R Plastic: Com3 RS232 (-10°C ~ 60°C) Alum.: Com3 RS232 (-20°C ~ 60°C) Q Plastic: Com3 RS485 (-10°C ~ 60°C) Alum.: Com3 RS485 (-20°C ~ 60°C) H Alum.: Com3 RS232 (-25°C ~ 70°C) G Alum.: Com3 RS485 (-25°C ~ 70°C)

K-Series PK 070 – W S T 2 0 – M1 R1 C00

Model Name PK PK-Series	Resolution T 800x600 W 480x272/800x480	Mode T Touch Panel W Wall Mount	Case Color/Shape M Wide Case with Black B Black Color L Wide type (Silver-Black)	OEM Code 00(Empty) Standard 01-FF For brand label customers
LCD Size 043 4.3" 070 7" 080 8" 100 10.1"	Operation S Standard Mode K Front Key + USB U Front USB F Front Key	Sub Model 1 With RTC 2 With 128MB NAND Flash / With RTC 3 Sub_Model_1 + Ethernet (Customize with MOQ) 4 Sub_Model_2 + Ethernet (Customize with MOQ)	Com2 0 Without Com2	BKRAM & Memory 0 Without BKRAM 1 128KB BKRAM
			Com3 Spec. & Temp. R Plastic: Com3 RS232 (0°C ~ 50°C) Q Plastic: Com3 RS485 (0°C ~ 50°C)	

T-Series PT 070 – W S T 4 B – F1 R1 C12

Model Name PT PT-Series	Resolution T 320x240/800x600 A 320x234 W 480x272/800x480 X 1024x600 1024x768	Case Color & Shape F Silver-Black Color W Ivory-White Color L Wide Case (Silver-Black) B Black Color G Aluminum Case (15") A Aluminum Case (7"/10.4") U Aluminum Case (Silver-Black)	OEM Code 00(Empty) Standard 01-FF For brand label customer
LCD Size 043 4.3" 056 5.6" 070 7" 080 8" 100 10.1" 104 10.4" 121 12.1" 150 15"	Operation S Standard Mode K Front Key + USB U Front USB X Extension Key F Front Key	Com2 0 Without Com2 A RS422/485 B RS232/485 C RS232(RTS/CTS)	BKRAM & Memory 0 Without BKRAM 1 128KB BKRAM 4 1024KB BKRAM
Mode T 4-wires Touch D 5-wires Touch H Handheld (Black) J Handheld (Orange) K Key Model W Wall Mount	Sub Model 0 No Battery (No BKRAM); No RTC 1 With RTC 2 With 128MB NAND Flash / Micro SD Slot; With RTC 3 1 + Ethernet Port 4 2 + Ethernet Port 5 4 + Audio Out	Com3 Spec. & Temp. R Plastic: Com3 RS232 (-10°C ~ 60°C) Alum.: Com3 RS232 (-20°C ~ 60°C) Q Plastic: Com3 RS485 (-10°C ~ 60°C) Alum.: Com3 RS485 (-20°C ~ 60°C) H Alum.: Com3 RS232 (-25°C ~ 70°C) G Alum.: Com3 RS485 (-25°C ~ 70°C)	

GX-Series

GX 612 – X S D 4 B – U 6 R 4 C00

Model Name GX GX-Series	Resolution T 800x600 W 800x480/1024x600 X 1024x768	Case Color & Material F Plastic /Silver -Black B Black Color G Thin Bright Aluminum U Aluminum anodized Dark Grey A Bright Aluminum	OEM Code C00 Standard C01-CFF For brand label customer
LCD Size 607 7" 608 8" 610 10.4" 611 10.1" 612 12.1" 615 15"	Operation S Standard Mode K Front Key + USB U Front USB X Extension Key F Front Key	PCB Coating 5/6 Codec Touch IC 3 Enhance PCB Coating	BKRAM & Memory 4 1MB BKRAM
Mode T 4-wires Touch W Wall Mount D 5-wires Touch H Handheld (Black) J Handheld (Orange)	Sub Model 4 1GB NAND Flash; RTC; Micro SD Slot; Ethernet 6 Video Module	Com2 A RS422/485 B RS232/485 C RS232(RTS/CTS)	Com3 Spec. & Temp. R Plastic: Com3 RS232 (-10°C ~ 60°C) Alum.: Com3 RS232 (-20°C ~ 60°C) Q Plastic: Com3 RS485 (-10°C ~ 60°C) Alum.: Com3 RS485 (-20°C ~ 60°C) H Alum.: Com3 RS232 (-25°C ~ 70°C) G Alum.: Com3 RS485 (-25°C ~ 70°C)

PANEL EXPRESS

P2W – SPT – A 03 – 016 35 DRVBCS

Software	Supplier Code	I/O Tags 03 300 15 1500 30 3000 50 5000 99 9900 (Max.)	Link Number 016 16-links 032 32-links 048 48-links 064 64-links ... 248 248-links(Max.)	OEM Code	Optional Features D Database R Report V VNC B VB Script C OPC Client S OPC Server
Type of License A Win CE Activated B Windows USB Dongle C Windows Online Activated					